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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application No. 10/508,978

Confirmation No. 4494

Applicant: Hwu et al.

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Examiner: Bradley Duffy

Docket No.: 230591 (Client Reference No. E-137-2002/0-US-03)

Customer No.: 45733

Commissioner for Patents
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DECLARATION UNDER 37 C.F.R. § 1.132 OF DR. WARREN LEONARD

1. I, Warren Leonard, am a co-inventor of the subject matter disclosed and claimed in the above-identified patent application.

2. Currently, I am Chief of the Lab of Molecular Immunology of the National Heart, Lung, and Blood Institute of the National Institutes of Health. I received my Medical Degree from Stanford University in 1977 and have authored over 200 scientific articles during my career.

3. I believe that, in general, data obtained from mouse models are useful for predicting the biological activity of a molecule in a human context. Indeed, that is why the scientific community has spent tremendous effort creating and analyzing knockout and transgenic mouse models. Accordingly, based on the mouse model data provided in the above-referenced application, I believe that a polynucleotide encoding human IL-21 would